

MASON, C. et al.
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AMENDMENTS TO THE ABSTRACT:

Please delete the abstract and include the substitute attached abstract
after the claims.

ABSTRACT

Disclosed is an organ culture device for culturing a viable organ. The device provides culture medium for culturing the viable organ using a pump. The pump has a pump chamber located between an inlet and an outlet. The pump provides pulsatile pumping action of the culture medium by repeated deformation of a resilient tubular sidewall of the pump chamber by pressurised gas. The flow path of the culture medium may be circulatory or non-circulatory. The device has a reservoir and a collection vessel for the culture medium. Gas transfer into and out of the culture medium is also provided. Also disclosed is the pump itself and a gas pressure control device for delivering pulsed pressurised gas, e.g. to the pump.